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# PATENT APPLICATION FEE DETERMINATION RECORD

Effective January 1, 2003

Application or Docket Number

10658315

## CLAIMS AS FILED - PART I

	(Column 1)	(Column 2)
TOTAL CLAIMS	20	
FOR	NUMBER FILED	NUMBER EXTRA
TOTAL CHARGEABLE CLAIMS	20 minus 20 =	*
INDEPENDENT CLAIMS	4 minus 3 =	1
MULTIPLE DEPENDENT CLAIM PRESENT <input type="checkbox"/>		

\* If the difference in column 1 is less than zero, enter "0" in column 2

SMALL ENTITY TYPE ☐

OR

OTHER THAN SMALL ENTITY

RATE	FEE
BASIC FEE	375.00
X\$ 9=	—
X42=	42
+140=	—
TOTAL	417

OR

RATE	FEE
BASIC FEE	750.00
X\$18=	
X84=	
+280=	
TOTAL	

## CLAIMS AS AMENDED - PART II

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	*	Minus	**
Independent	*	Minus	***
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>			

SMALL ENTITY OR

OTHER THAN SMALL ENTITY

RATE	ADDITIONAL FEE
X\$ 9=	
X42=	
+140=	
TOTAL ADDIT. FEE	

OR

RATE	ADDITIONAL FEE
X\$18=	
X84=	
+280=	
TOTAL ADDIT. FEE	

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER	PRESENT EXTRA
Total	*		
Independent	*		
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>			

SKIP N<sup>o</sup>

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT C	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	*	Minus	**
Independent	*	Minus	***
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>			

RATE	ADDITIONAL FEE
X\$ 9=	
X42=	
+140=	
TOTAL ADDIT. FEE	

OR

RATE	ADDITIONAL FEE
X\$18=	
X84=	
+280=	
TOTAL ADDIT. FEE	

\* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20."

\*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3."

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

15. A method of obtaining an agent that promotes retroviral integration into the genome of a mammalian cell, the method comprising:

selecting one or more substances that comprise RNA  
5 with nucleotide sequence having a gene sequence, which is a ribozyme specific to the gene;  
testing the test substance for ability to  
promote retroviral integration into a mammalian  
10 cell, by providing the test substance to a mammalian cell  
into which a retrovirus is introduced, and determining a  
change in retroviral integration into the genome of the  
mammalian cell compared with a control experiment,

wherein an increase in retroviral integration compared  
15 with the control experiment is indicative of ability of the  
test substance to promote retroviral integration into the  
genome of a mammalian cell and said agent is thereby obtained.

16. A method according to claim 15 further comprising  
20 formulating the obtained agent into a composition comprising  
at least one additional component.

17. A method of inhibiting retroviral integration in a  
mammalian cell, the method comprising increasing mammalian  
25 RAD52 DNA-binding activity in the cell.

18. A method according to claim 17 comprising causing  
overexpression of mammalian RAD52 protein or a DNA-binding  
fragment thereof within the cell.

30

19. A method according to claim 18 comprising introducing  
into the cell nucleic acid encoding mammalian RAD52 protein or  
a DNA-binding fragment thereof.